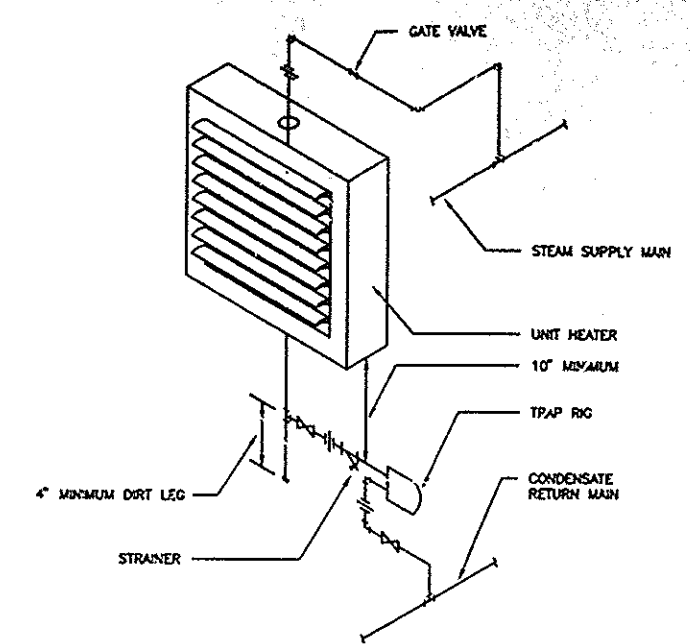
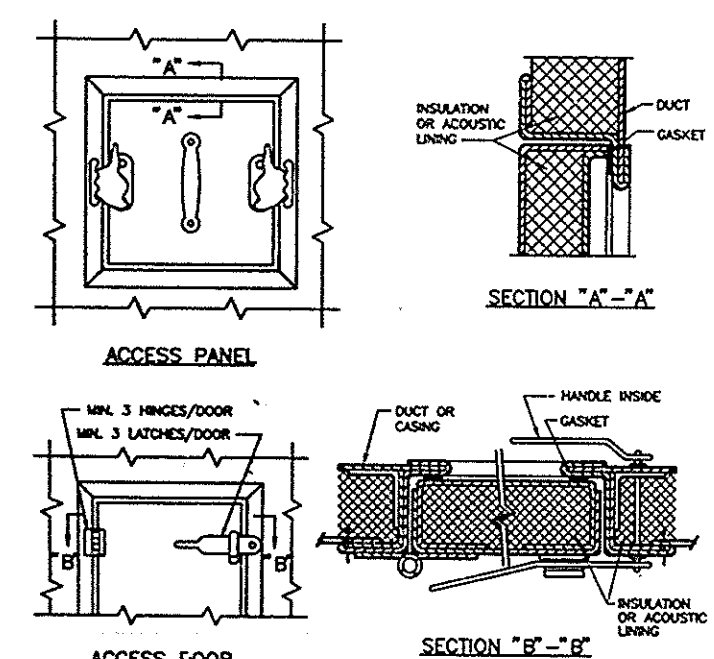


PROPELLER FAN DETAIL  
(NOT TO SCALE)

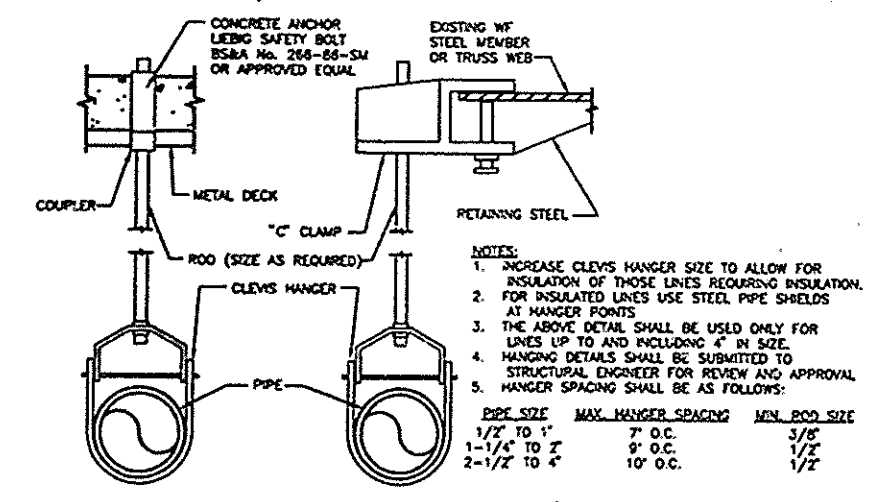


STEAM UNIT HEATER PIPING  
(NOT TO SCALE)

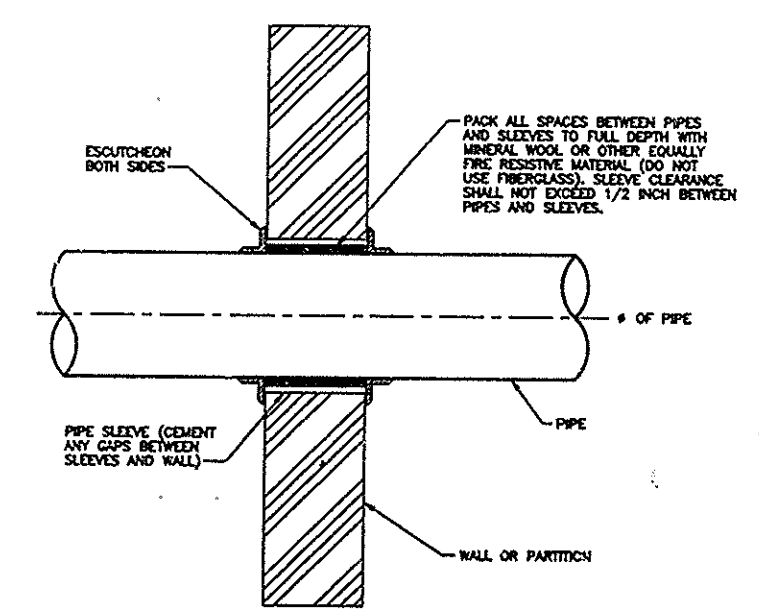


- NOTES:
1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
  2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
  3. PROVIDE ACCESS DOORS ON AIR HANDLING UNITS AND DUCT WORK INSTALLED IN EQUIPMENT ROOMS. PROVIDE ACCESS PANELS ON ALL EQUIPMENT AND DUCTWORK INSTALLED ABOVE FINISHED CEILING WHERE SPACE LIMITATIONS DO NOT ALLOW HINGED DOORS TO OPEN.
  4. ACCESS DOOR INSTALLED IN THE DUCT EXPOSED TO WEATHER TO BE WEATHERPROOF. ALL HARDWARE SHALL BE STAINLESS STEEL.

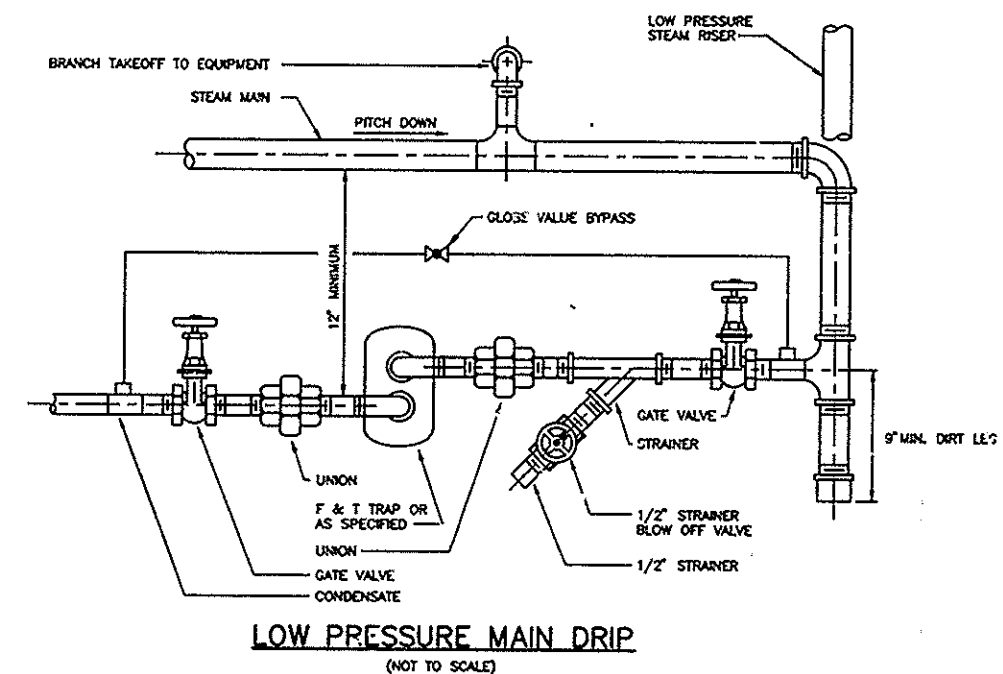
ACCESS DOOR & PANEL DETAILS  
(NOT TO SCALE)



TYPICAL HANGER DETAILS

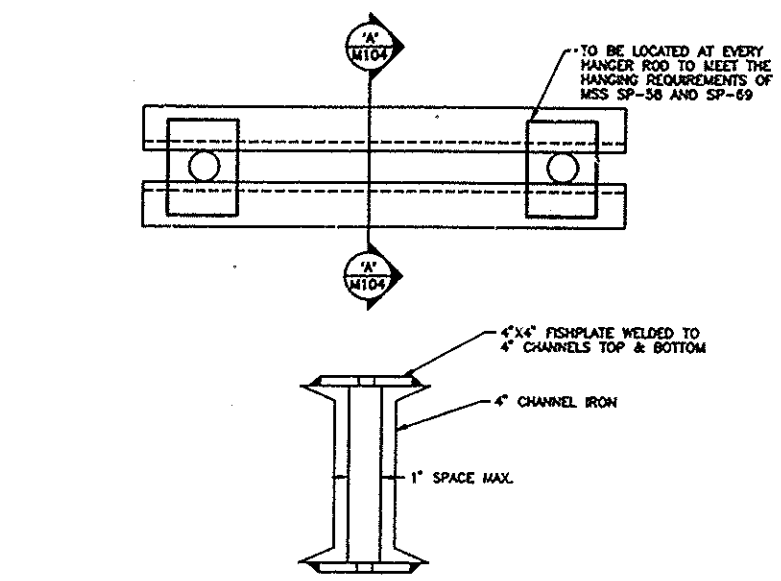


PIPING PIERCING FIRE RATED PARTITIONS & WALLS  
(NOT TO SCALE)

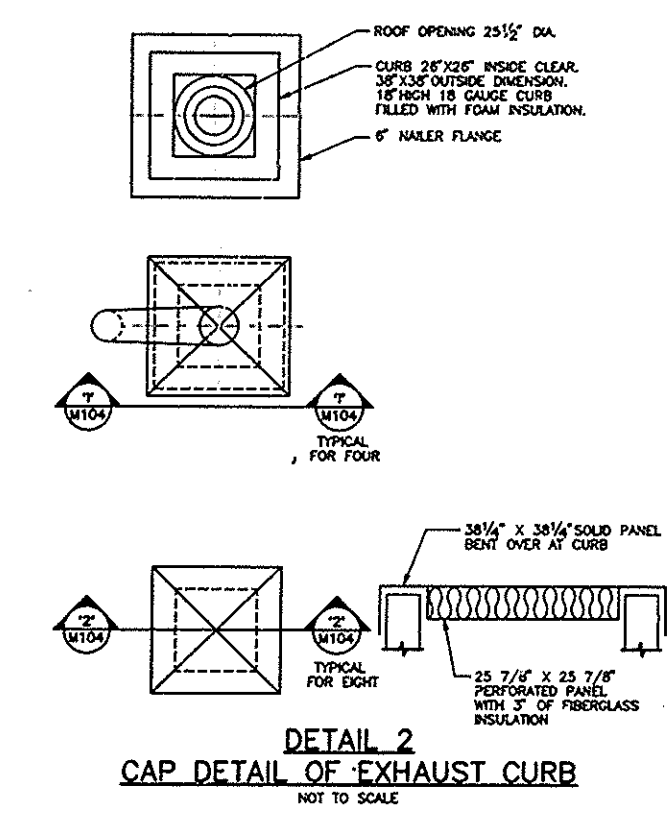


LOW PRESSURE MAIN DRIP  
(NOT TO SCALE)

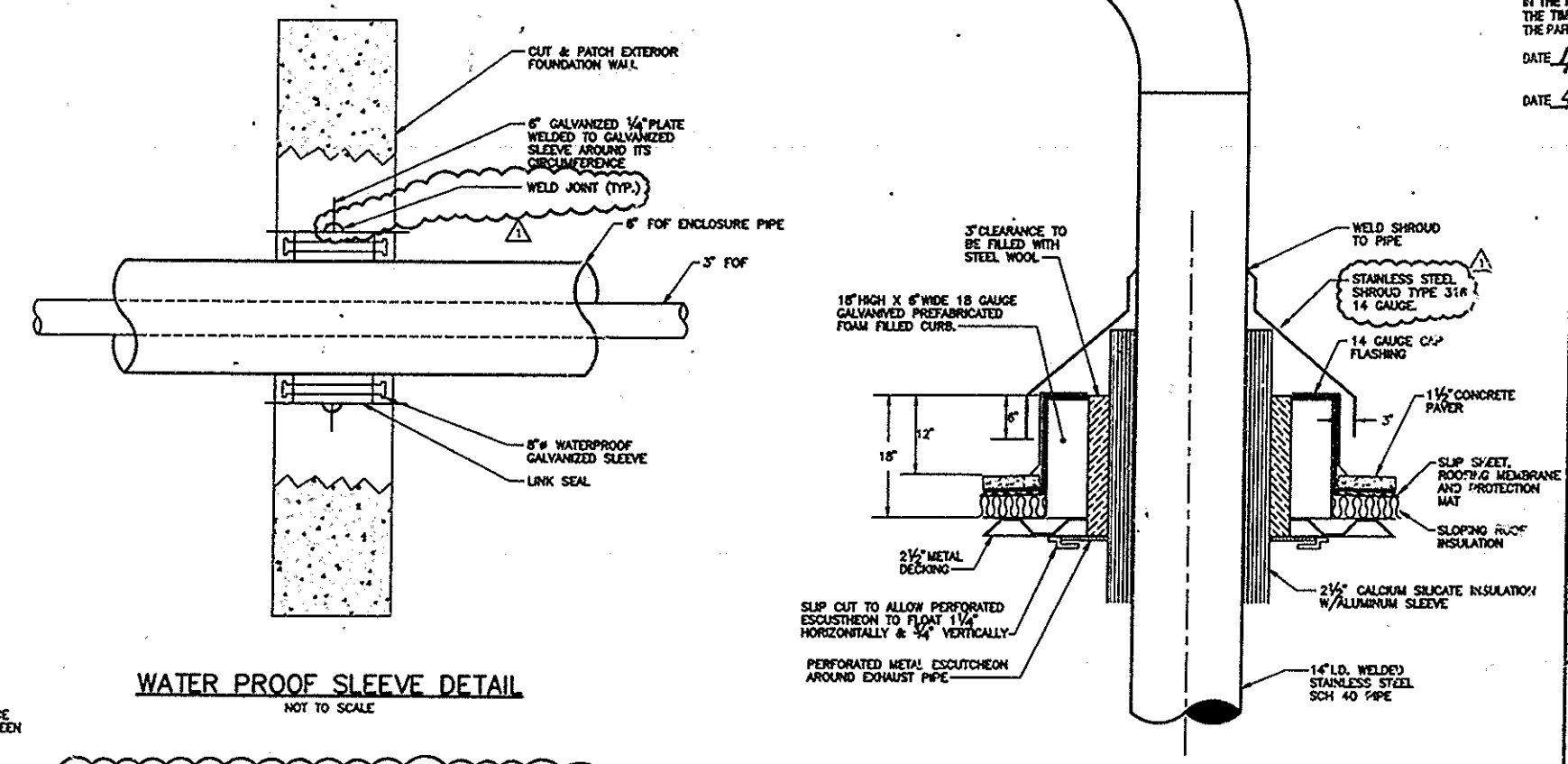
UNIT HEATER SCHEDULE											
BASIS OF DESIGN: MODINE											
UNIT NO.	LOCATION	MBH	AIR DATA		WATER DATA		STEAM DATA		MOTOR DATA		REMARKS
			CFM (H)	TEMP. F	ENT. LVG.	ENT. LVG.	MAX. P.D. (FT.)	LBS/HR	HP	RPM (H)	
UHI-12	GENERATOR BUILDING	108	2010	109	-	-	-	111	10	1825	-



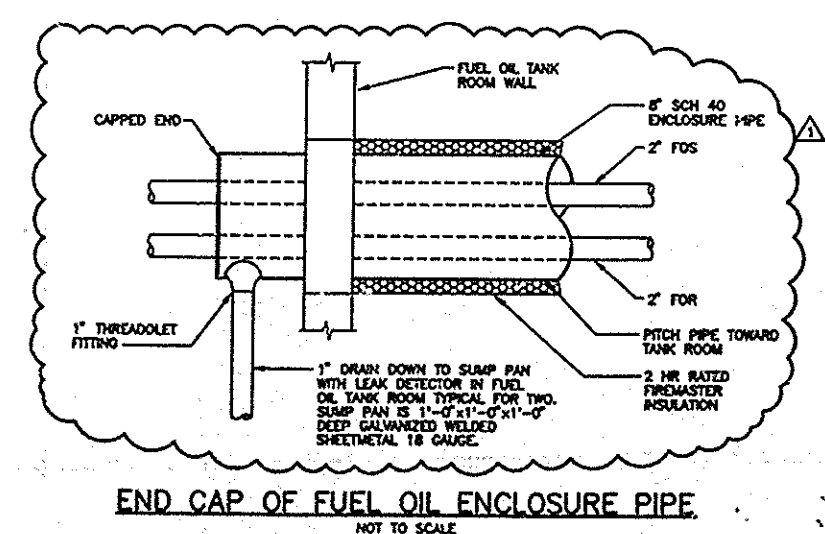
DETAIL OF FABRICATED TRAPEZE HANGER FOR 18" HEADER AND MUFFLERS  
(NOT TO SCALE)



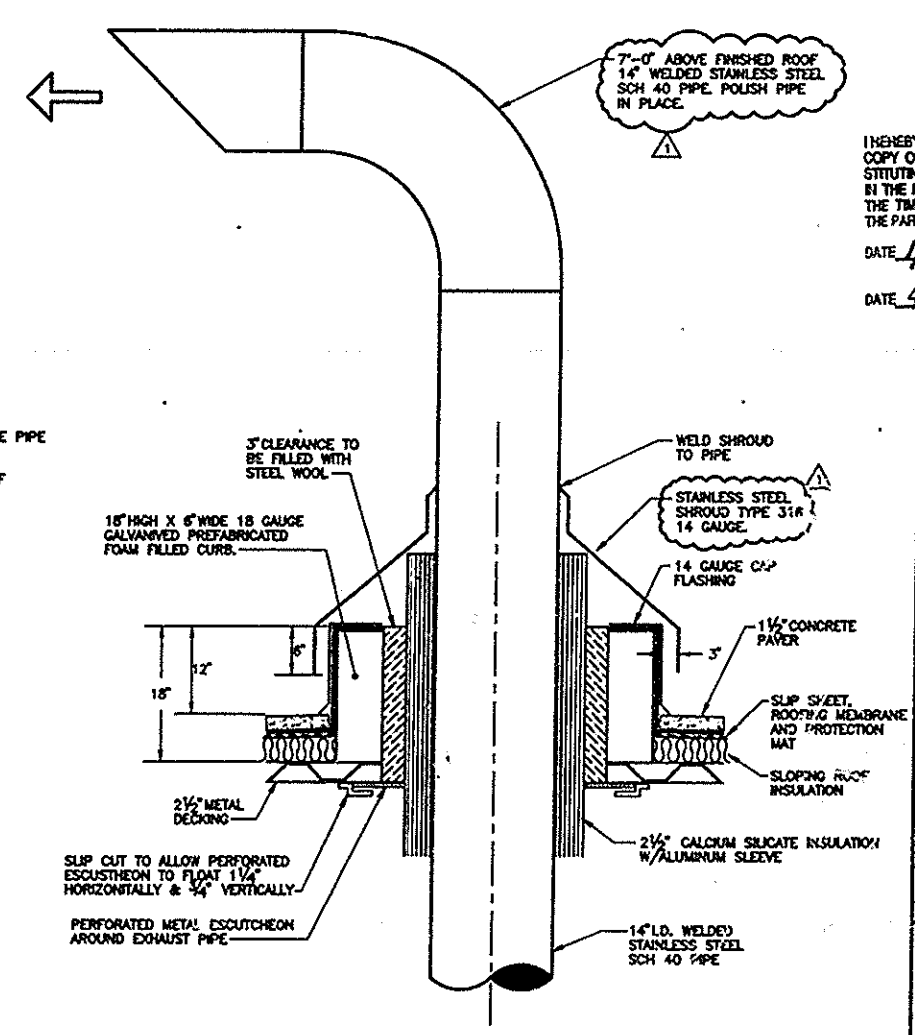
DETAIL 2  
CAP DETAIL OF EXHAUST CURB  
(NOT TO SCALE)



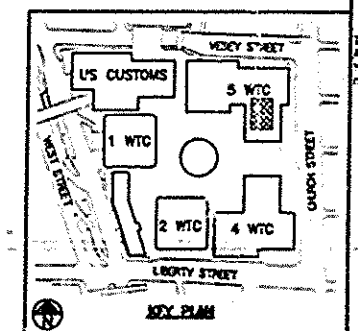
WATER PROOF SLEEVE DETAIL  
(NOT TO SCALE)



END CAP OF FUEL OIL ENCLOSURE PIPE  
(NOT TO SCALE)



DETAIL '1'  
EMERGENCY GENERATOR EXHAUST  
PIPE THRU ROOF  
(NOT TO SCALE)



Sheet 76 of 112

**THE PORT AUTHORITY OF NY & NJ**

ORIGINAL SIGNED & SEALED BY  
N.Y. P.E. (OR R.A.)

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I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DOCUMENTS, CONSTITUTING A PART OF CONTRACT NO. **WTC-945-071**, IN THE FORM IN WHICH SAID DOCUMENTS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE: **1/16/98** *Stephen A. Ashkin*  
DATE: **4/10/98** *T.J. Loring*

No.	Date	Revision	Approved
1	12/12/97	SHOW F.O. PIPE CAP	
2	11/17/97	ISSUED FOR BID	

Engineering Department  
Design Divisions

**The World Trade Center**

STANDBY POWER  
5 WORLD TRADE CENTER

MECHANICAL  
DETAIL SHEET #1

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

J.D.	M.A.R.	Check by
Designed by	Drawn by	

Date: 11/17/97 Scale: NONE  
Contract Number: WTC-945-071 Drawing Number: M1-04